

FORM PTO-1449
(REV. 7-80)

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
EBC97-06A

SERIAL
08/51,089

APPLICANTS
Aldis Darzins and Gregory T. Mrachko

FILING DATE
May 5, 1997

GROUP

U.S. PATENT DOCUMENTS

EXAM- INER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
E.S.	AA	5,356,801	10/18/94	Rambosek, J. et al.	435	195	07/09/93
E.S.	AB	5,358,870	10/25/94	Monticello, D.J. et al.	435	282	06/11/92
E.S.	AC	5,356,813	10/18/94	Monticello, D.J.	435	282	04/30/92
E.S.	AD	5,198,341	03/30/93	Kilbane II, J.J.	435	42	01/14/91
E.S.	AE	5,132,219	07/21/92	Kilbane II, J.J.	435	195	02/28/90
E.S.	AF	5,344,778	09/06/94	Kilbane II, J.J.	435	262	05/28/92
E.S.	AG	5,104,801	04/14/92	Kilbane II, J.J.	435	282	01/05/90
E.S.	AH	5,002,888	03/26/91	Kilbane II, J.J.	435	252.31	01/05/90
E.S.	AI	5,607,857	03/04/97	Grossman et al.	435	282	06/13/95
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YR NO
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

E.S.	AR	Brosius, J., "Laboratory Methods," DNA, 8(10): 759-777 (1989).
E.S.	AS	Vieira, J. and Messing, J., "New pUC-derived Cloning vectors with different selectable markers and DNA replication origins," Gene, 100: 189-194 (1991).
E.S.	AT	Vieria, J. and Messing, J., "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," Gene, 19: 259-268 (1982).
E.S.	AU	Monticello, D.J. et al., "Practical Considerations in Biodesulfurization of Petroleum," IGT's 3rd Intl. Symp. on Gas, Oil, Coal and Env. Biotech., (Dec. 3-5, 1990) New Orleans, LA.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

28	AV	Xu, Y. et al., Abstracts of the 95th General Meeting of the American Society for Microbiology, Q-281).
1	AW	Li, M.Z. et al., "Genetic Analysis of the dsz Promoter and Associated Regulatory Regions of <i>Rhodococcus erythropolis</i> IGTS8," <i>J. Bacteriol.</i> , 178(22): 6409-6418 (November 1996).
	AX	Parry, R.J. et al., "Cloning, Analysis, and Overexpression of the Gene Encoding Isobutylamine N-Hydroxylase from the Valanimycin Producer, <i>Streptomyces viridifaciens</i> ," <i>J. Bacteriol.</i> , 179(2): 409-416 (January 1997).
	AY	Hirel, Ph.-Hervé, et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," <i>Proc. Nat. Acad. Sci. USA</i> , 86: 8247-8251 (November 1989).
	AZ	Monticello, D.J. and Finnerty, W.R., "Microbial Desulfurization of Fossil Fuels," <i>Ann. Rev. Microbiol.</i> , 39: 371-389 (1985).
	AR2	Gundlach, E.R. et al., "The Fate of Amoco Cadiz Oil, <i>Science</i> , 221: 122-129 (1983).
	AS2	Yen, K.-M., "Construction of Cloning Cartridges for Development of Expression Vectors in Gram-Negative Bacteria," <i>J. Bacteriol.</i> , 173: 5328-5335 (September 1991).
	AT2	Omori, T. et al., "Desulfurization of Dibenzothiophene by <i>Corynebacterium</i> sp. Strain SY1," <i>Appl. Env. Microbiol.</i> , 58(3): 911-915 (March 1992).
	AU2	Izumi, Y. et al., "Selective Desulfurization of Dibenzothiophene by <i>Rhodococcus erythropolis</i> D-1," <i>Appl. Env. Microbiol.</i> , 60(1): 223-226 (January 1994).
	AV2	Lee, M.K. et al., "Sulfur-Specific Microbial Desulfurization of Sterically Hindered Analogs of Dibenzothiophene," <i>Appl. Environ. Microbiol.</i> , 61(12): 4362-4366 (December 1995).
	AW2	Constanti, M. et al., "Degradation and desulfurization of dibenzothiophene sulfone and other sulfur compounds by <i>Agrobacterium</i> MC501 and a mixed culture," <i>Enzyme Microb. Tech.</i> , 19: 214-219 (1996).
▼	AX2	Gray, K.A. et al., "Molecular mechanisms of biocatalytic desulfurization of fossil fuels," <i>Nature Biotech.</i> , 14: 1705-1709 (December 1996).
98	AY2	Altschul, S.F. et al., "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> , 215: 403-410 (1990).

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U.S. PATENT DOCUMENTS

EXAM- INER INT- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ES	AZ2	West, S.E.H. et al., "Codon usage in <i>Pseudomonas aeruginosa</i> ," <i>Nucl. Acids Res.</i> , 16(19): 9323-9335 (1988).
ES	AR3	Blanc, V. et al., "Cloning and Analysis of Structural Genes from <i>Streptomyces pristinaespiralis</i> Encoding Enzymes Involved in the Conversion of Pristinamycin II _B to Pristinamycin II _A (PII _A): PII _A Synthase and NADH:Riboflavin 5'-Phosphate Oxidoreductase," <i>J. Bacteriol.</i> , 177(18): 5206-5214 (September 1995).
	AS3	Duggleby, R.G., "[3] Analysis of Enzyme Progress Curves by Nonlinear Regression," <i>Methods Enzymo.</i> , 249: 61-90 (1995).
	AT3	Denome, S.A. et al., "Characterization of the Desulfurization Genes from <i>Rhodococcus</i> sp. Strain IGTS8," <i>J. Bacteriol.</i> , 176(21): 6707-6716 (November 1994).
	AU3	Woo, T.H.S. et al., "An Application of a Simple Method for the Preparation of Bacterial DNA," <i>BioTechniques</i> , 13(5): 696-698 (1992).
	AV3	Birboim, H.C. and Doly, J. "A rapid alkaline extraction procedure for screening recombinant plasmid DNA," <i>Nuc. Acids Res.</i> , 7(6): 1513-1523 (1979).
	AW3	Vogelstein and Gillespie, <i>Proc. Natl. Acad. Sci. USA</i> , 76: 615-619 (1979).
	AX3	Devereux, J. et al., "A comprehensive set of sequence analysis programs for the VAX," <i>Nucl. Acids Res.</i> , 12(1): 387-395 (1984).
	AY3	Yabuuchi, E. et al., "Proposals of <i>Sphingomonas paucimobilis</i> gen. nov. and comb. nov., <i>Sphingomonas parapaucimobilis</i> sp. nov., <i>Sphingomonas yanoikuyae</i> sp. nov., <i>Sphingomonas adhaesiva</i> sp. nov., <i>Sphingomonas capsulata</i> comb. nov., and Two Genospecies of the Genus <i>Sphingomonas</i> ," <i>Microbiol. Immunol.</i> , 34(2): 99-119 (1990).
	AZ3	Foght, J.M. and Westlake, D.W.S., "Expression of dibenzothiophene-degradative genes in two <i>Pseudomonas</i> species," <i>Can. J. Microbiol.</i> , 36: 718-724 (1990).
	AR4	Monticello, D.J. et al., "Plasmid-Mediated Degradation of Dibenzothiophene by <i>Pseudomonas</i> species," <i>Appl. Environ. Microbiol.</i> , 49(4): 756-760 (April 1985).
ES	AS4	Piddington, C.S. et al., "Sequence and Molecular Characterization of a DNA Region Encoding the Dibenzothiophene Desulfurization Operon of <i>Rhodococcus</i> sp. Strain IGTS8," <i>App. Environ. Microbiol.</i> , 61(2): 468-475 (February 1995).

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